

PATENT ABSTRACTS OF JAPAN

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(54) PRODUCTION OF CERAMICS AND ADDITION OF CERAMICS

(57)Abstract:

PURPOSE: To produce uniformly fine, pure and dense ceramics particles consisting of an inorganic salt composed of the inorganic ion mentioned below and an anion produced by the following reaction in a short time at a low temperature by reacting an enzyme(-containing organism) with a substrate for the above-mentioned enzyme in an inorganic ion-containing solution.

CONSTITUTION: An enzyme(-containing organism) (e.g., urease) is reacted with a substrate (e.g., urea) for the above-mentioned enzyme in an inorganic ion (e.g., Al^{3+})-containing solution (e.g., aqueous aluminum chloride solution) to obtain ceramics. When addition of ceramics to a substance is required, the above-mentioned substance is recommendably added to an inorganic ion-containing solution and an enzyme, etc., and a substrate for the above-mentioned enzyme are added thereto followed by a reaction.

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